

DOCUMENT RESUME

ED 421 184

JC 980 329

AUTHOR McCain, Anita K.; Hine, Terry; Wolfertz, Joanne
TITLE Educational Outcomes and Competencies across the Curriculum.
PUB DATE 1998-00-00
NOTE 42p.
PUB TYPE Reports - Research (143)
EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Allied Health Occupations Education; *College Outcomes Assessment; *Core Curriculum; *General Education; *Minimum Competencies; Outcomes of Education; Program Effectiveness; *Self Evaluation (Groups); Two Year Colleges

ABSTRACT

As part of an effort to evaluate college effectiveness and ensure student academic achievement, St. Vincent's College, a small two-year health science college in Bridgeport, Connecticut, formed a task force to develop general education outcomes across the curriculum. The college's general education core curriculum consists of 25 credits, including classes in English composition, mathematics, psychology, sociology, ethics, religious studies, physical/biological sciences, and a humanities elective. The task force determined that students completing the core should possess basic communication, math, research, and critical thinking skills; an appreciation of the humanities and of society; a knowledge of scientific principles; and ethics and values. The task force then developed competencies for each of these outcomes using a modified DACUM process. Finally, through surveys and reviews of syllabi and exams, the task force determined that competency-based learning experiences were being provided across the curriculum at the college. Based on task force results, appropriate instruments could then be developed to measure outcomes. Two appended tables present the DACUM Matrix of Curriculum Outcomes developed by the task force and a list of outcomes and competencies across the curriculum, showing the nursing, radiography, and general education courses that teach each competency. (BCY)

* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *

JC 980 329

Educational Outcomes and Competencies

Across the Curriculum

Developed by:

Anita K. McCain, Ed.D Project Director

Terry Hine, MA

Joanne Wolfertz, EdD(c)

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

This document has been reproduced as
received from the person or organization
originating it.

Minor changes have been made to
improve reproduction quality.

• Points of view or opinions stated in this
document do not necessarily represent
official OERI position or policy.

"PERMISSION TO REPRODUCE THIS
MATERIAL HAS BEEN GRANTED BY

A. K. McCain

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)."

St. Vincent's College is a small two-year health science college in the Northeast. Because the College has a strong commitment to the quality and quantity of the educational experience of its students, it is obligated to evaluate its effectiveness and assure student academic achievement. The assessment process already in place required a more formal organized approach, especially in the general education component of the curriculum.

The philosophy of general education at St. Vincent's College is derived from the Educational Philosophy of the institution. Courses in general education expose the student to values inherent in a Judeo-Christian education. They support and facilitate the student's development of critical thinking, logical reasoning and sound decision making. Knowledge obtained from these courses serves as a foundation for the learner's life long education, development and intellectual inquisitiveness necessary for living in a complex modern society.

The general education curriculum is derived from the Institutional objectives and is comprised of a core curriculum related to physical and social sciences and the humanities. All degree students enrolled in the College are required to complete a 25 credit core. The following courses comprise the core curriculum:

English Composition	3 credits
College Mathematics	3 credits
General Psychology	3 credits
Introduction to Sociology	3 credits
Ethics	3 credits
Introduction to the Study of Religion	3 credits
Physical/biological sciences	4 credits
Humanities: restricted elective	<u>3 credits</u>
	25 credits

The restricted elective must be taken from the Humanities: Art, Communication, Foreign language, History, Literature, Philosophy, Music and Religious Studies.

A Task Force of the Curriculum Committee was appointed to develop general education outcomes. The general education courses are understood to be those which a student takes, in addition to the major courses, to obtain an introduction to essential aspects of our culture.

The goal of general education is to strengthen both the general skills and broad conceptual abilities that students need to function competently in day-to-day life. Today's students are expected not only to possess information age skills such as writing and problem solving, but to be able to apply these skills and knowledge in an interdependent, culturally diverse world. These skills are necessary for lifelong learning.

Students who successfully complete the General Education component at St. Vincent's College shall possess the following concepts, skills and knowledge:

- Basic communication skills
- Basic mathematical skills
- Basic research skills
- Critical thinking and problem solving skills
- An appreciation for the humanities
- An appreciation for society
- A knowledge of scientific principles, and the natural or physical sciences
- Ethics and values

Competencies for each of these outcomes were developed utilizing a modified DACUM (Table 1). The Task Force recognized the importance of general education as an integral component of health care education. The ability to communicate, problem solve and analyze is essential if graduates are to maintain employment and cope with a changing and expanding knowledge base.

To achieve a further integration of general education into the associate degree career programs the task force decided that the outcomes, based on the significant and unique contributions of general education, must be regarded as essential as the health care outcomes. Therefore integrated and complementary outcomes should be considered in both the general education and the career programs.

Through surveys, review of syllabi and tests and other methods the task force ascertained that competency based learning experiences are being provided across the curriculum, sufficient to ensure that each student at the college has the opportunity to achieve each competency (Table 2). The challenge was to develop means to demonstrate through quantitative and qualitative indicators that St. Vincent's College students do indeed attain the competencies.

Once specific competencies had been identified the appropriate measurement instrument(s) could be determined. Multiple measures consisting of externally and internally developed instruments ensure the accuracy and efficacy of data. St. Vincent's College gathers data by means of student, graduate and employer surveys, standardized tests such as the Academic Profile and Assess Tests, and various faculty projects designed to determine achievement and competencies in the classroom.

St. Vincent's College has completed the initial stages of just assessing the educational outcomes and competencies, and is now in the process of repeated assessment and evaluation, establishing feedback loops and reporting mechanisms. All of this data is summarized and utilized as the basis for action plans to revise academic policy, if necessary, to ensure student academic achievement.

Table 1
DACUM Matrix of Curriculum Outcomes

A St. Vincent's College student completing the general education requirements shall possess the following concepts, skills and knowledge:

A. Basic Communication Skills	B. Basic Mathematical Skills	C. Basic Research Skills	D. Critical Thinking and Problem Solving Skills	E. An appreciation for the humanities	F. An appreciation for society	G. A knowledge of scientific principles, and the natural or physical sciences.	H. Ethics and Values
A.1. Processes information through listening.	B1. Utilize basic computational methods.	C.1 Access information resources.	D.1 Gather factual information and apply it to a given problem in a relevant, clear, and comprehensive manner.	E.1 Demonstrate awareness of the scope and variety of works in the arts and humanities.	F.1 Evaluate social structures and influences.	G.1 Demonstrate an understanding of scientific theories.	H.1 Examine, articulate, and apply own ethical views.
A2. Convey ideas and information through speaking.	B.2 Interpret numerical data.	C.2 Integrate new and existing knowledge.	D.2 Analyze, summarize, and interpret a variety of reading materials.	E.2 Understand those works as expressions of individual and human values within an historical and social context.	F.2 Understand the developmental processes that shape the individual.	G.2 Evaluate societal issues from a natural science perspective.	H.2 Understand and apply core concepts, (e.g., rights, responsibilities, justice) to specific issues.
A.3 Interpret written communication.	B.3 Demonstrate measurement techniques.	C3. Demonstrate scientific, cultural, and technical literacy.	D.3 Use the problem-solving process.	E.3 Respond critically to works in the arts and humanities.	F.3 Demonstrate a knowledge of cultural, social, religious, and linguistic differences.	G.3 Discern patterns and relationships of biophysical and sociocultural systems.	H.3 Analyze and reflect on the ethical dimensions of legal, social, and scientific issues.
A.4 Use standard English.	B.4 Generate visual representation of data.		D.4 Recognize and articulate the value assumptions made by self and others.	E.4 Articulate an informed personal reaction to works in the arts and humanities.	F.4 Recognize interdependence of the world community.	G.4 Adapt to technological changes.	H.4 Identify personal values and consciously employ them in ethical decision making.
A.5 Convey ideas and information through writing.	B.5 Recognize limitations of quantitative data.				F.5 Demonstrate civic responsibilities.	G.5 Recognize the value of natural and physical sciences.	
A.6 Participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding.							

Table 2
Outcomes and Competencies Across the Curriculum

Outcome: BASIC COMMUNICATION SKILLS

Demonstrate the ability to read, listen, and interpret and communicate through appropriate spoken or written forms of standard English

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
- process information through listening	NUR 101 - 232: Completes process records of interactions with clients.	RAD 234: Utilizes appropriate communication skills with patients in all stages of the life cycle, co-workers and peers.	ENG 101: Uses active listening and summarizes class comments for group discussion. PSY 101: Demonstrates ability to read, comprehend and retain materials.
- convey ideas and information through speaking		NUR 112: Prepares and implements a teaching plan for a diabetic client.	RAD 234: Provides diagnostic services with related teaching in a structured health care setting. ENG 101: Is a competent speaker in small discussion groups. PSY 101: Presents views which are informed, logical and organized. HIS 101: Describes the key events of the Civil Rights Movement using Standard English.

Outcome: BASIC COMMUNICATION SKILLS (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
- interpret written communication	<p>NUR 101-232: Reads, interprets, and implements medical and nursing orders.</p>	<p>RAD 102, 113, 224, 232, 234: Interprets radiologic orders in order to function as beginning technologists in the health care delivery system.</p>	<p>ENG 101: Demonstrates increased skill in reading and thinking.</p> <p>PSY 101: Integrates materials from resources for oral presentation.</p>
- use standard English		<p>NUR 232: Submits reaction papers related to experiences in ambulatory settings.</p>	<p>ENG 101: Uses correct grammar, language, spelling and punctuation.</p> <p>PSY 101: Demonstrates appropriate use of standard English when writing article critiques.</p>

Outcome: BASIC COMMUNICATION SKILLS (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none">- convey ideas and information through writing	<p>NUR 231 and 232: Submits a formal paper discussing a nursing issue.</p>	<p>RAD233: Describes the effect of pathology on the radiographic image. Student activities include completion of Radiologic paper.</p>	<p>ENG 101: Completes a writing portfolio containing several short papers and a formal essay.</p> <p>PSY 101: Writes formal paper utilizing standard criteria.</p>
<ul style="list-style-type: none">- participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding		<p>RAD 234: Performs and/or assists with all radiographic and fluoroscopic examinations of the skeletal system, thoracic and abdominal cavities, gastrointestinal and urinary systems. Lab activities included role-play and simulations.</p>	<p>ENG 101: Participates cooperatively and effectively in group discussion.</p> <p>ENG 213: Becomes a more active participant and more effective leader in group discussions.</p> <p>PSY 101: Integrates materials from resources in oral presentations.</p>

Outcome: BASIC MATHEMATICAL SKILLS

Demonstrate the ability to apply basic principles of mathematics to the understanding and interpretation of mathematical data and problems.

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none">- utilize basic computational methods	<p>NUR 231: Computes nutritional intake for clients receiving parenteral hyperalimentation.</p>	<p>RAD 101: Utilizes math formulas including fractions and basic algebraic equations to manipulate exposure factors.</p>	<p>MAT 101: Performs operations with rational numbers, percents, signed numbers and ratio proportions.</p> <p>MAT 101: Interprets data accurately from tables, graphs and charts.</p>

Outcome: BASIC MATHEMATICAL SKILLS (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
- demonstrate measurement techniques	NUR 101 - 232: Draws up appropriate dosage of parenteral medications.	RAD 102: Observes and assists with routine and simple radiographic and fluoroscopic examinations of the chest, abdomen & extremities. Measures the patient part and selects appropriate X-ray exposure factors.	MAT 101: Solves word problems involving linear equations. BIO 103: Documents observations of measurable phenomena.

Outcome: BASIC MATHEMATICAL SKILLS (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none">- recognize limitations of quantitative data	<p>NUR 112 - 232: Interprets client lab values as part of client assessment.</p> <p>RAD 101, 112, 223, 231, 233: Completes research radiologic technology papers which require use of quantitative data.</p>	<p>MAT 101: Recognizes valid and invalid forms of argument.</p>	

Outcome: BASIC RESEARCH SKILLS

Demonstrate the ability to use basic research methods and apply current technologies to retrieve, evaluate, and use information.

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
- access information resources	NUR 101 - 232: Utilizes library resources to obtain bibliographic citations.	RAD 101, 112, 223, 231, 233: Completes a radiologic technology paper and presents articles found in professional journals.	PSY 101: Demonstrates basic library research methods with required research paper.
- integrate new and existing knowledge	NUR 112 - 232: Incorporates recent clinical data obtained from current professional journals into nursing care plans.	RAD 101 - 234: Completes CAI and computer review assignments and Lab assignments including the use of a video disc to review and reinforce lessons.	PSY 112: Identifies elementary concepts and important research findings related to lifespan development.
- demonstrate scientific, cultural, and technical literacy	NUR 231 - 232: Utilizes on-line services to research material in the development of a formal nursing issues paper.	RAD 101 - 234: Performs on-line searches utilizing library resources in completing radiography assignments.	SOC 101: Presents tools of analysis of scientific study of society, including the ability to discern valid and reliable data from that which is not.

CRITICAL THINKING AND PROBLEM SOLVING SKILLS (Cont'd)

Outcome: CRITICAL THINKING AND PROBLEM SOLVING SKILLS

Think critically and make connections in learning across the disciplines.

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none">- gather factual information and apply it to a given problem in a relevant, clear, and comprehensive manner.	<p>NUR 101 - 232: Collects and utilizes data from primary and secondary sources to establish a client's nursing diagnosis.</p> <p>NUR 231: Defines and discusses a nursing issue from the perspective of numerous authors in a formal paper.</p> <p>- analyze, summarize and interpret a variety of reading materials.</p>	<p>RAD 102, 113, 224, 232 and 234: Observes, assists and performs radiographic and fluoroscopic procedures on patients, varying techniques as needed due to patient condition(s).</p> <p>RAD 101, 112, 223, 231, 233: Prepares and presents radiologic journal articles as a classroom activity.</p>	<p>PHI 204: Analyzes an issue before commenting, writing, or judging.</p> <p>ENG 213: Presents views which are informed, logical and organized.</p> <p>SOC 101: Uses research and resources in the decision making process to gain insight into commonly accepted assumptions underlying familiar societal institutions and processes.</p>
	<ul style="list-style-type: none">- use the problem-solving process	<p>RAD 102, 113, 224, 232, 234: Utilizes critical thinking/problem solving skills when confronted with unusual situations where you must deviate from the routine procedures.</p> <p>NUR 101 - 232: Collects client data, develops a nursing diagnosis, formulates client-centered goals, implements nursing assistive actions, evaluates planned outcomes, and institutes revisions.</p>	<p>MAT 101: Demonstrates critical thinking skills when solving equations and word problems.</p> <p>PHI 204: Uses research and resources in decision making processes.</p>

CRITICAL THINKING AND PROBLEM SOLVING SKILLS (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
- recognize and articulate the value assumptions made by self and others.	NUR 232: Identifies own value assumptions and those of others, related to a nursing issue in a formal paper. RAD 102, 113, 224, 232 and 234: Recognizes/demonstrates accountability and responsibility for personal and professional behavior.		PHI 204: Learns to think critically and evaluate one's own ethical beliefs in terms of classical ethical principles and theories.

Outcome: AN APPRECIATION FOR THE HUMANITIES

Demonstrate knowledge of the human condition and human cultures, especially in relation to behaviors, ideas, and values expressed in works of human imagination and thought.

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none">- demonstrate awareness of the scope and variety of works in the arts and humanities	<p>NUR 232: Develops a paper on an ethical issue in nursing.</p>	<p>RAD 233: Develops a paper on a social or ethical issue in medicine as it relates to radiology.</p>	<p>ENG 213: Discusses concepts and basic elements of communication.</p>
<ul style="list-style-type: none">- understand those works as expressions of individual and human values within an historical and social context		<p>RAD 233: Demonstrates understanding of cultural diversity in class presentation of articles on social or ethical issues in medicine.</p>	<p>ENG 212: Demonstrates awareness of cultural and ethnic tradition which are reflective in writings.</p> <p>HIS 101: Discusses the social challenges of minorities, women, labor, and the poor.</p>

Outcome: AN APPRECIATION FOR THE HUMANITIES (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none">- respond critically to works in the arts and humanities- articulate an informed personal reaction to works in the arts of humanities	<p>NUR 232: Compares and contrasts the viewpoints of various authors in an ethical issues paper.</p>	<p>RAD 233: Compares and contrasts the viewpoints of various authors in a paper on a social or ethical issue.</p>	<p>HUM 101: Presents critique of readings related to theories of assimilation, pluralism and ethnic resurgence.</p> <p>ENG 214: Presents opinion of works by at least five American authors.</p>

Outcome: AN APPRECIATION FOR SOCIETY

Demonstrate an awareness of self as an individual, as a member of a multicultural society and/or as a member of a world community a multicultural society and/or as a member of a world community

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
- evaluate social structures and influences	NUR 101: Assesses the effects of a client's culture on self-care.	Rad 234: Utilizes appropriate communication skills with patients in all stages of the life cycle.	SOC 101: Demonstrates an awareness of the basic concepts and methods of Sociology.
- understand the development processes that shape the individual	NUR 112: Utilizes various psychological theories to assess a child's growth and development.	RAD 233: Analyzes the adjustment of technical factors to produce a quality pediatric (vs adult) radiograph.	HIS 101: Examines social institutions and processes across a range of historical periods and cultures.
- demonstrate a knowledge of cultural, social, religious, and linguistic differences	NUR 101 - 232: Develops individualized nursing care plans which reflect knowledge of a client's cultural, social, religious, and ethnic background.	RAD 233: Discusses the cultural differences as it relates to male vs female technologists performing mammography.	PSY 112: Demonstrates understanding of lifespan developmental processes and how they are influenced by cultural, social and cognitive styles.

Outcome: AN APPRECIATION FOR SOCIETY (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
- recognize interdependence of the world community	NUR 232: Recognizes the cooperative and interdependent relationships of health care agencies in the planning of the continuity of client care.	RAD 102, 113, 224, 232, 234: Recognizes cooperative and interdependent relationships between healthcare professionals in the various clinical settings that radiographers perform their service.	SOC 101: Discusses the functioning of society and how its institutions affect and are affected by individuals and culture. PSY 101: Increases understanding of the changing world.
- demonstrate civic responsibility	NUR 232: Identifies own responsibility as a citizen and a professional to maintain licensure and currency in practice.	RAD 233 & 234: Identifies own responsibility as a citizen and a professional by completing 12 hours of continuing education annually as a requirement of maintaining ARRT certification.	HUM 101: Discusses individual responsibility related to current events and social issues.

Outcome: A KNOWLEDGE OF SCIENTIFIC PRINCIPLES, AND THE NATURAL OR PHYSICAL SCIENCES

Understand how and where the sciences are applied, including their application to environmental problems.

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none">- demonstrate an understanding of scientific theories	<p>NUR 112: Assesses the presence of factors in a client which contribute theoretically, to the development of atherosclerosis.</p>	<p>RAD 112: Identifies the components of the X-ray machine and describes the electrical circuitry.</p>	<p>MAT 101: Applies scientific method to solve problems.</p> <p>PSY 101: Uses the scientific method to explain theory and a wide variety of experimentation.</p>
<ul style="list-style-type: none">- evaluate societal issues from a natural science perspective- discern patterns and relationships of biophysical and sociocultural systems	<p>NUR 231: Identifies the effects of air pollution on a client's respiratory status.</p>	<p>RAD 231: Evaluates the design of radiographic imaging facilities, ensuring that the public as well as staff is protected from ionizing radiation.</p>	<p>SOC 101: Questions evidence presented and makes informed judgements about societal issues.</p> <p>BIO 113: Discusses the utilization of microbes for practical purposes to benefit humans and society.</p>
	<p>NUR 101: Identifies a client's response to pain as a result of cultural influences.</p>	<p>RAD 113: Demonstrates appropriate procedures for handling patients with various medical needs.</p>	

Outcome: A KNOWLEDGE OF SCIENTIFIC PRINCIPLES, AND THE NATURAL OR PHYSICAL SCIENCES (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none">- adapt to technological changes	<p>NUR 101 - 232: Maintains currency in technical and technological skills.</p>	<p>RAD 233 & 234: Maintains currency of technological changes by completing 12 hours of continuing education as a requirement of maintaining ARRT Certification.</p>	<p>PSY 101: Completes research paper utilizing the latest research methods including computer searches and use of compact disk storage units.</p>
<ul style="list-style-type: none">- recognize the value of natural and physical sciences	<p>NUR 101 - 232: Identifies the usefulness of knowledge of human anatomy when selecting injection sites.</p>	<p>RAD 101 - 234: Applies knowledge of human anatomy to radiographic positioning skills.</p>	<p>SOC 101: Discusses the impact of science on society.</p> <p>BIO 103 - 104: Improves understanding of scientific principles and the methods of scientific inquiry.</p>

Outcome: ETHICS AND VALUES

Identify, discuss, and reflect upon the ethical dimensions of political, social and personal life and understand the ways in which to exercise responsible and productive citizenship.

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
- examine, articulate, and apply own ethical views	NUR 232: Delineates own response to an ethical issue in nursing in a formal paper.	RAD 101: Identifies principles relating to the legal and ethical aspects of radiography and expresses own view on ethical issues during discussion.	PHI 204: Critically evaluates one's own ethical beliefs in the light of reason. REL 101: Analyzes the ethical dimensions and social ramifications of religious thought, belief and practice(s).
- understand and apply core concepts, (e.g. rights, responsibilities, justice) to specific issues		NUR 123: Identifies the rights of mentally ill clients who are hospitalized on an involuntary basis.	RAD 101 - 234: Recognizes the patients right to be fully informed regarding testing and the right to refuse radiographic examinations. PSY 101: Discusses the ethical practice of psychology as applied to experimentation.

Outcome: ETHICS AND VALUES (Cont'd)

COMPETENCY	NURSING	RADIOGRAPHY	GENERAL EDUCATION
<ul style="list-style-type: none"> - analyze and reflect on the ethical dimensions of legal, social, and scientific issues 	<p>NUR 231: Discusses the legal, ethical, social, and scientific aspects of clients who are HIV positive.</p>	<p>RAD 101: Identifies and discusses the Code of Ethics of the ASRT and ARRT as it relates to the practice of radiography.</p>	<p>PHI 204: Increases understanding by analyzing ethical and moral issues.</p> <p>RAD 101: Identifies own personal values as well as the professional standards in discussions of legal/ethical case studies.</p> <p>NUR 232: Identifies the effects of personal values on a client's request for a DNR order as presented in Nursing Grand Rounds.</p> <p>PHI 204: Describe what constitutes ethical behavior and identify own personal and professional ethical standards.</p> <p>SOC 101: Gains insight into assumptions underlying societal institutions and processes.</p>

References

Angelo, T.A. and Cross, K.P. (1993). Classroom assessment techniques: A handbook for college teachers. San Francisco, CA: Jossey-Bass.

Astin, A.W. (1993). Assessment for excellence: The philosophy and practice of assessment and evaluation in higher education. Phoenix, AZ: The Oryx Press.

Banta, T., Lund, J., Black, K., and Oblender, F. (1996). Assessment in practice: Putting principles to work on college campuses. San Francisco, CA: Jossey-Bass.

Nichols, J.O. (1995). A practitioner's handbook for institutional effectiveness and student outcomes assessment implementation (3rd ed.). Edison, NJ: Agathon Press.



U.S. Department of Education
Office of Educational Research and Improvement (OERI)
Educational Resources Information Center (ERIC)

ERIC

JG 980329

REPRODUCTION RELEASE

(Blanket Document)

I. DOCUMENT IDENTIFICATION (Class of Documents):

All Publications:

Educational Outcomes and Competencies Across the Curriculum

Series (Identify Series):

Division/Department Publications (Specify):

II. REPRODUCTION RELEASE:

In order to disseminate as widely as possible timely and significant materials of interest to the educational community, documents announced in the monthly abstract journal of the ERIC system, *Resources in Education* (RIE), are usually made available to users in microfiche, reproduced paper copy, and electronic/optical media, and sold through the ERIC Document Reproduction Service (EDRS) or other ERIC vendors. Credit is given to the source of each document, and, if reproduction release is granted, one of the following notices is affixed to the document.

If permission is granted to reproduce and disseminate the identified document, please CHECK ONE of the following two options and sign at the bottom of the page.



Check here

For Level 1 Release:
Permitting reproduction in
microfiche (4" x 6" film) or
other ERIC archival media
(e.g., electronic or optical)
and paper copy.

The sample sticker shown below will be
affixed to all Level 1 documents

PERMISSION TO REPRODUCE AND
DISSEMINATE THIS MATERIAL
HAS BEEN GRANTED BY

Sample

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)

Level 1

The sample sticker shown below will be
affixed to all Level 2 documents

PERMISSION TO REPRODUCE AND
DISSEMINATE THIS
MATERIAL IN OTHER THAN PAPER
COPY HAS BEEN GRANTED BY

Sample

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)



Check here

For Level 2 Release:
Permitting reproduction in
microfiche (4" x 6" film) or
other ERIC archival media
(e.g., electronic or optical),
but *not* in paper copy.

Level 2

Documents will be processed as indicated provided reproduction quality permits. If permission to reproduce is granted, but neither box is checked, documents will be processed at Level 1.

"I hereby grant to the Educational Resources Information Center (ERIC) nonexclusive permission to reproduce and disseminate this document as indicated above. Reproduction from the ERIC microfiche or electronic/optical media by persons other than ERIC employees and its system contractors requires permission from the copyright holder. Exception is made for non-profit reproduction by libraries and other service agencies to satisfy information needs of educators in response to discrete inquiries."

Sign
here→
please

Signature:

Anita K. McCain

Printed Name/Position/Title:

Anita K. McCain Associate Dean

Organization/Address:

*St. Vincent's College
2800 Main St.
Bridgeport CT 06606*

Telephone:

203 576-5481

E-Mail Address:

SUCAKM@aol.com

FAX:

203 576-5318

Date:

7/30/98

III. DOCUMENT AVAILABILITY INFORMATION (FROM NON-ERIC SOURCE):

If permission to reproduce is not granted to ERIC, or, if you wish ERIC to cite the availability of the document from another source, please provide the following information regarding the availability of the document. (ERIC will not announce a document unless it is publicly available, and a dependable source can be specified. Contributors should also be aware that ERIC selection criteria are significantly more stringent for documents that cannot be made available through EDRS.)

Publisher/Distributor:

Address:

Price:

IV. REFERRAL OF ERIC TO COPYRIGHT/REPRODUCTION RIGHTS HOLDER:

If the right to grant reproduction release is held by someone other than the addressee, please provide the appropriate name and address:

Name:

Address:

V. WHERE TO SEND THIS FORM:

Send this form to the following ERIC Clearinghouse:

Willy Yu
ERIC Clearinghouse for
Community Colleges
3051 Moore Hall
Box 951521
Los Angeles, CA 90095-1521

However, if solicited by the ERIC Facility, or if making an unsolicited contribution to ERIC, return this form (and the document being contributed) to:

ERIC Processing and Reference Facility
1100 West Street, 2d Floor
Laurel, Maryland 20707-3598

Telephone: 301-497-4080
Toll Free: 800-799-3742
FAX: 301-953-0263
e-mail: ericfac@inet.ed.gov
WWW: http://ericfac.piccard.csc.com